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25 January 2013

Jim Fleer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221

RE: Arkwood Monthly Sampling
SDG Number: 1301213

Enclosed are the results of analyses for samples received by the laboratory on 18-Jan-13 12:43. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

| | |
|------------------------|-------|
| Custody Seals | ✓ |
| Containers Correct | ✓ |
| COC/Labels Agree | ✓ |
| Preservation Confirmed | ✓ |
| Received On Ice | ✓ |
| Temperature on Receipt | 4.0°C |

Sincerely,

A handwritten signature in blue ink that reads "Norma James".

Norma James
President

25 January 2013



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CASE NARRATIVE

Sample Delivery Group – 1301213

Qualified Analytical and/or Quality Control Results are Discussed Below:

Semivolatiles Analysis:

The three compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The three surrogate compounds are as follows: 2,4,6-tribromophenol, 2-fluorophenol, and Phenol-d5.

Surrogate Failure: The surrogate 2,4,6-Tribromophenol failed to recover within acceptance limits in sample 1301213-01 (Mouth). The recovery was qualified by "%D3." The results for sample 1301213-01 (Mouth) were qualified as "estimated" (E1) due to this failure.

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ANALYTICAL RESULTS

Lab Number: 1301213-01
Sample Name: Mouth
Date/Time Collected: 1/16/13 14:15
Sample Matrix: Water

| <u>Semivolatiles</u> | <u>Units</u> | <u>Result</u> | <u>Qualifier(s)</u> | <u>Date/Time Analyzed</u> | <u>Batch</u> | <u>Method</u> |
|-----------------------------|--------------|---------------|---------------------|---------------------------|--------------|---------------|
| Pentachlorophenol | ug/L | 40.5 | E1 | 1/21/13 18:33 | A301237 | 8270D |
| 2,4,6-Tribromophenol [surr] | % | 115 | %D3 | 1/21/13 18:33 | A301237 | 8270D |
| 2-Fluorophenol [surr] | % | 57.5 | | 1/21/13 18:33 | A301237 | 8270D |
| Phenol-d5 [surr] | % | 40.5 | | 1/21/13 18:33 | A301237 | 8270D |

ANALYTICAL RESULTS

Lab Number: 1301213-02
Sample Name: Weir
Date/Time Collected: 1/16/13 13:45
Sample Matrix: Water

| <u>Semivolatiles</u> | <u>Units</u> | <u>Result</u> | <u>Qualifier(s)</u> | <u>Date/Time Analyzed</u> | <u>Batch</u> | <u>Method</u> |
|-----------------------------|--------------|---------------|---------------------|---------------------------|--------------|---------------|
| Pentachlorophenol | ug/L | 2.12 | | 1/21/13 18:55 | A301237 | 8270D |
| 2,4,6-Tribromophenol [surr] | % | 90.9 | | 1/21/13 18:55 | A301237 | 8270D |
| 2-Fluorophenol [surr] | % | 50.0 | | 1/21/13 18:55 | A301237 | 8270D |
| Phenol-d5 [surr] | % | 35.2 | | 1/21/13 18:55 | A301237 | 8270D |

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QUALITY CONTROL RESULTS

Semivolatiles - Quality Control Analyzed: 21-Jan-13 15:34 By: TB

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch A301237 - 3510C Modified

Blank (A301237-BLK1)

Prepared & Analyzed: 21-Jan-13

| | | | | | | | | | | |
|---------------------------------|------|------|------|------|--|------|-----------|--|--|--|
| Pentachlorophenol | ND | 5.00 | ug/L | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | 34.0 | | " | 40.0 | | 85.1 | 19.3-113 | | | |
| Surrogate: 2-Fluorophenol | 25.1 | | " | 40.0 | | 62.7 | 13-75.4 | | | |
| Surrogate: Phenol-d5 | 19.7 | | " | 40.0 | | 49.1 | 13.1-75.2 | | | |

LCS (A301237-BS1)

Prepared & Analyzed: 21-Jan-13

| | | | | | | | | | | |
|---------------------------------|------|------|------|------|--|------|-----------|--|--|--|
| Pentachlorophenol | 41.4 | 5.00 | ug/L | 40.0 | | 103 | 48.5-124 | | | |
| Surrogate: 2,4,6-Tribromophenol | 43.8 | | " | 40.0 | | 109 | 19.3-113 | | | |
| Surrogate: 2-Fluorophenol | 25.5 | | " | 40.0 | | 63.8 | 13-75.4 | | | |
| Surrogate: Phenol-d5 | 20.9 | | " | 40.0 | | 52.1 | 13.1-75.2 | | | |

LCS (A301237-BS2)

Prepared & Analyzed: 21-Jan-13

| | | | | | | | | | | |
|---------------------------------|------|------|------|------|--|------|-----------|--|--|--|
| Pentachlorophenol | 30.9 | 5.00 | ug/L | 36.0 | | 85.9 | 48.5-124 | | | |
| Surrogate: 2,4,6-Tribromophenol | 37.8 | | " | 40.0 | | 94.6 | 19.3-113 | | | |
| Surrogate: 2-Fluorophenol | 15.3 | | " | 40.0 | | 38.3 | 13-75.4 | | | |
| Surrogate: Phenol-d5 | 12.5 | | " | 40.0 | | 31.3 | 13.1-75.2 | | | |

Matrix Spike (A301237-MS1)

Source: 1301215-01

Prepared & Analyzed: 21-Jan-13

| | | | | | | | | | | |
|---------------------------------|------|------|------|------|----|------|-----------|--|--|--|
| Pentachlorophenol | 75.0 | 10.0 | ug/L | 80.0 | ND | 93.8 | 29.2-146 | | | |
| Surrogate: 2,4,6-Tribromophenol | 75.7 | | " | 80.0 | | 94.7 | 19.3-113 | | | |
| Surrogate: 2-Fluorophenol | 43.3 | | " | 80.0 | | 54.1 | 13-75.4 | | | |
| Surrogate: Phenol-d5 | 36.9 | | " | 80.0 | | 46.1 | 13.1-75.2 | | | |

Matrix Spike Dup (A301237-MSD1)

Source: 1301215-01

Prepared & Analyzed: 21-Jan-13

| | | | | | | | | | | |
|---------------------------------|------|------|------|------|----|------|-----------|------|------|--|
| Pentachlorophenol | 78.9 | 10.0 | ug/L | 80.0 | ND | 98.7 | 29.2-146 | 5.10 | 25.6 | |
| Surrogate: 2,4,6-Tribromophenol | 80.9 | | " | 80.0 | | 101 | 19.3-113 | | | |
| Surrogate: 2-Fluorophenol | 46.0 | | " | 80.0 | | 57.5 | 13-75.4 | | | |
| Surrogate: Phenol-d5 | 37.0 | | " | 80.0 | | 46.2 | 13.1-75.2 | | | |

QUALIFIER(S)

*%D3: Surrogate Percent Recovery Does Not Meet Laboratory Acceptance Criteria

*E1: Estimated Result Due to Surrogate Failure

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James
President

[illegible]